

AMENDMENTS TO THE CLAIMS:

1. (currently amended) A foam composed of a high-temperature-resistant thermoplastic selected from the group consisting of polyether sulfones, polysulfones, polyether ketones, polyether ether ketones, polyether ketone ketones, polyethersulfonamides, and mixtures of these, and having an open-cell structure, wherein the open-cell factor for the foam is at least 75%.
2. (currently amended) A foam as claimed in claim 1, which has a cell size of from 50 to 2000 μm ~~preferably from 100 to 1000 μm , particularly preferably from 100 to 800 μm , and/or has a density of from 20 to 200 g/l, preferably from 20 to 150 g/l, particularly preferably from 30 to 100 g/l.~~
3. (cancelled)
4. (cancelled)
5. (currently amended) A foam as claimed in claim 1, wherein the plastic has a glass transition temperature above 170°C, ~~preferably above 180°C, particularly preferably above 200°C, and/or is thermoplastically extrudable at temperatures above 280°C, preferably above 300°C, particularly preferably above 320°C.~~
6. (cancelled)
7. (cancelled).
8. (cancelled)
9. (cancelled)

10. (cancelled)
11. (cancelled)
12. (cancelled)
13. (cancelled)
14. (previously presented) A molding, in particular a sheet, comprising an open-cell foam as claimed in claim 1.
15. (cancelled).
16. (cancelled)
17. (cancelled).
18. (cancelled)
19. (cancelled)
20. (cancelled)
21. (cancelled)
22. (cancelled)
23. (cancelled)
24. (new) A foam as claimed in claim 1, wherein the open-cell factor for the foam is at least 85%.

25. (new) A foam as claimed in claim 1, wherein the open-cell factor for the foam is at least 90%.
26. (new) A foam as claimed in claim 1, which has a cell size of from 100 to 1000 μm .
27. (new) A foam as claimed in claim 1, which has a cell size of from 100 to 800 μm .
28. (new) A foam as claimed in claim 1, which has a density of from 20 to 200 g/l.
29. (new) A foam as claimed in claim 1, which has a density of from 20 to 150 g/l.
30. (new) A foam as claimed in claim 1, which has a density of from 30 to 100 g/l.
31. (new) A foam as claimed in claim 2, which has a density of from 20 to 200 g/l.
32. (new) A foam as claimed in claim 26, which has a density of from 20 to 150 g/l.
33. (new) A foam as claimed in claim 27, which has a density of from 30 to 100 g/l.
34. (new) A foam as claimed in claim 1, wherein the plastic has a glass transition temperature above 180°.
35. (new) A foam as claimed in claim 1, wherein the plastic has a glass transition temperature above 200°.
36. (new) A foam as claimed in claim 1, wherein the plastic is thermoplastically extrudable at temperatures above 280°.
37. (new) A foam as claimed in claim 1, wherein the plastic is thermoplastically extrudable at temperatures above 300°.

38. (new) A foam as claimed in claim 1, wherein the plastic is thermoplastically extrudable at temperatures above 320°.
39. (new) A foam as claimed in claim 5, wherein the plastic is thermoplastically extrudable at temperatures above 280°.
40. (new) A foam as claimed in claim 34, wherein the plastic is thermoplastically extrudable at temperatures above 300°.
41. (new) A foam as claimed in claim 35, wherein the plastic is thermoplastically extrudable at temperatures above 320°.